Drought Response Outreach Program for Schools (DROPS) - Draft Guidelines Workshop

Photo Credit: http://assets.inhabitat.com

State Water Resources Control Board

Division of Financial Assistance

June 24 and July 8, 2014

CALIFORNIA Water Boards

STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

Drought Response Outreach Program for Schools (DROPS)
Draft Guidelines Workshop Agenda
June 24, 2014

WORKSHOP OBJECTIVES:

1. Provide an overview of the DROPS grant program and the Draft Guidelines
2. Gather stakeholder input on the program preferences and requirements outlined in the Draft Guidelines
3. Provide stakeholders with information regarding other grant opportunities for schools

AGENDA:

2:30 pm	Introduction and Workshop Overview – Leslie Laudon
2:40 pm	Department of Water Resources: IRWM Drought Grant Program and Water-Energy Grant Program – Laura Peters
2:50 pm	State Water Board: Cleanup and Abatement Interim Emergency Drinking Water Program –Mark Fong
3:00 pm	DROPS – Overview and Program Preferences – Sarah Gatzke
3:30 pm	DROPS - Comment and Discussion – Jeffrey Albrecht ❖ Grant Amounts ❖ Disadvantaged Community and Environmental Justice Definition ❖ Scoring Criteria ❖ Other Questions/Comments

Water-Energy Grant Program

SWRCB - Drought Response Outreach Program for Schools

June 24, 2014

Laura L. Peters

Department of Water Resources, Financial Assistance Branch

Drought Legislation
Senate Bills 103 and 104

- Appropriated $687.4 million
  - $581.5 million to DWR
    - $472.5 million in Proposition 84 IRWM funds, includes
      - $200 Million to be expedited for drought projects
      - $272.5 Million for IRWM projects
        - Up to $21.8 Million to "backfill" 2014 Implementation Grant awards
      - Appropriated all remaining Proposition 84 IRWM funds
    - $77 million in Proposition 1E funds for multi-purpose flood projects
    - $30 million in Greenhouse Gas Reduction Funds, includes
      - $20 million for Water-Energy Grant Program
    - $1 million for Save Our Water campaign
    - $1 million for California Statewide Groundwater Elevation Monitoring

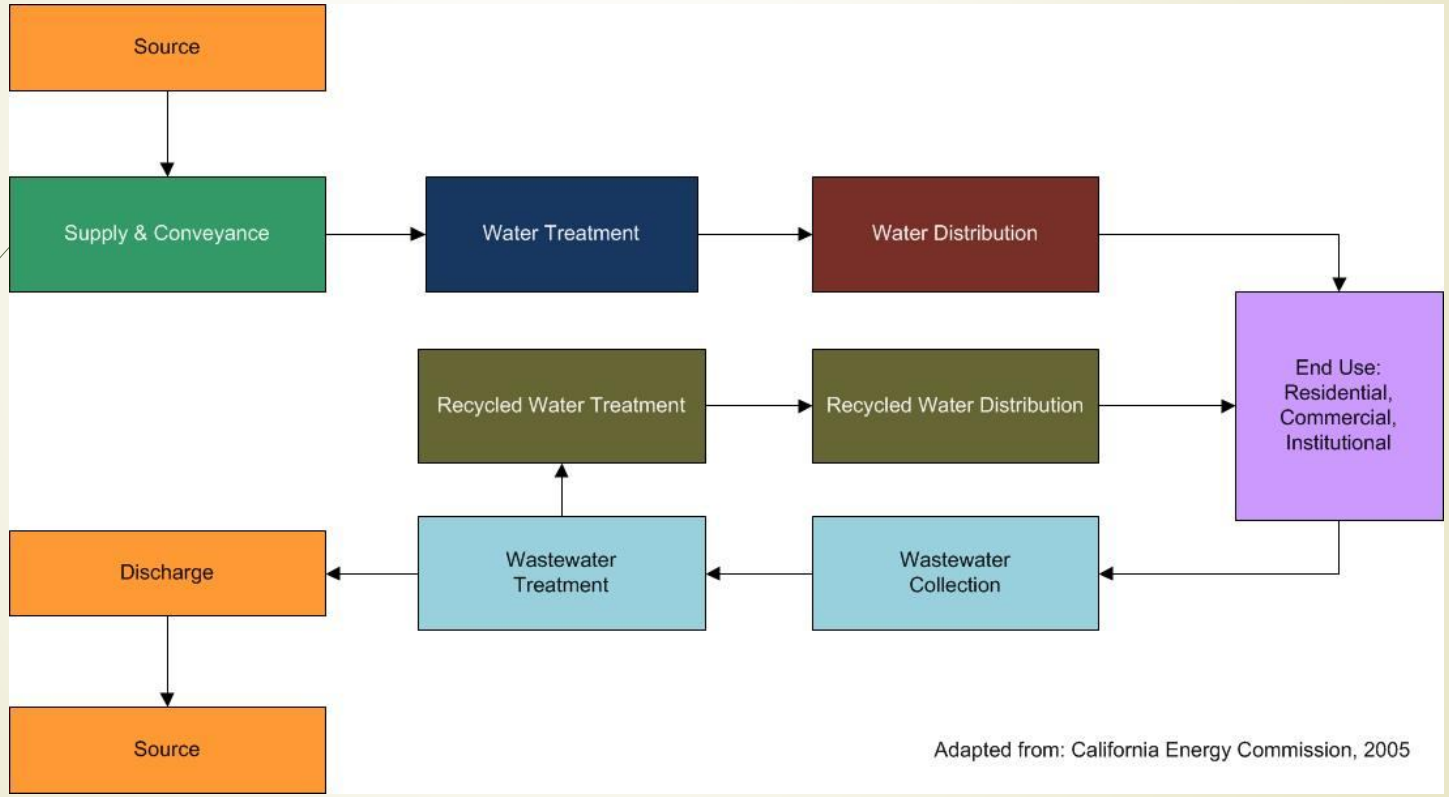
Water Energy Grant Program

- $19M Local Assistance
- Greenhouse Gas Reduction Fund
- Residential, commercial, or institutional water efficiency programs or projects
- Projects must:
  - Reduce greenhouse gas emissions
  - Reduce water use
  - Reduce energy use

Eligibility Requirements

- Urban Water Management
  - UWMP
  - Demand Management Measures (AB 1420)
  - Water Metering (Water Code § 525 *et seq*.)
- Groundwater Management
  - Groundwater Management Plan
  - CASGEM
- Surface Water Diversion Reporting
- Agricultural Water Management
  - AWMP

Water Use Cycle



Modified CEC diagram – End Use categories limited to those authorized by SB 103

Estimating Water & Energy Savings and GHG Reduction

- Estimate annual water savings
- Estimate (project) lifetime water savings
- Estimate annual energy savings
- Estimate lifetime energy savings
- Estimate annual GHG emissions reductions
- Estimate lifetime GHG emissions reductions

Attachment 2

Estimate of Water Savings, Energy Savings, and GHG Emissions Reduction

Project Name:
Total Project Cost:

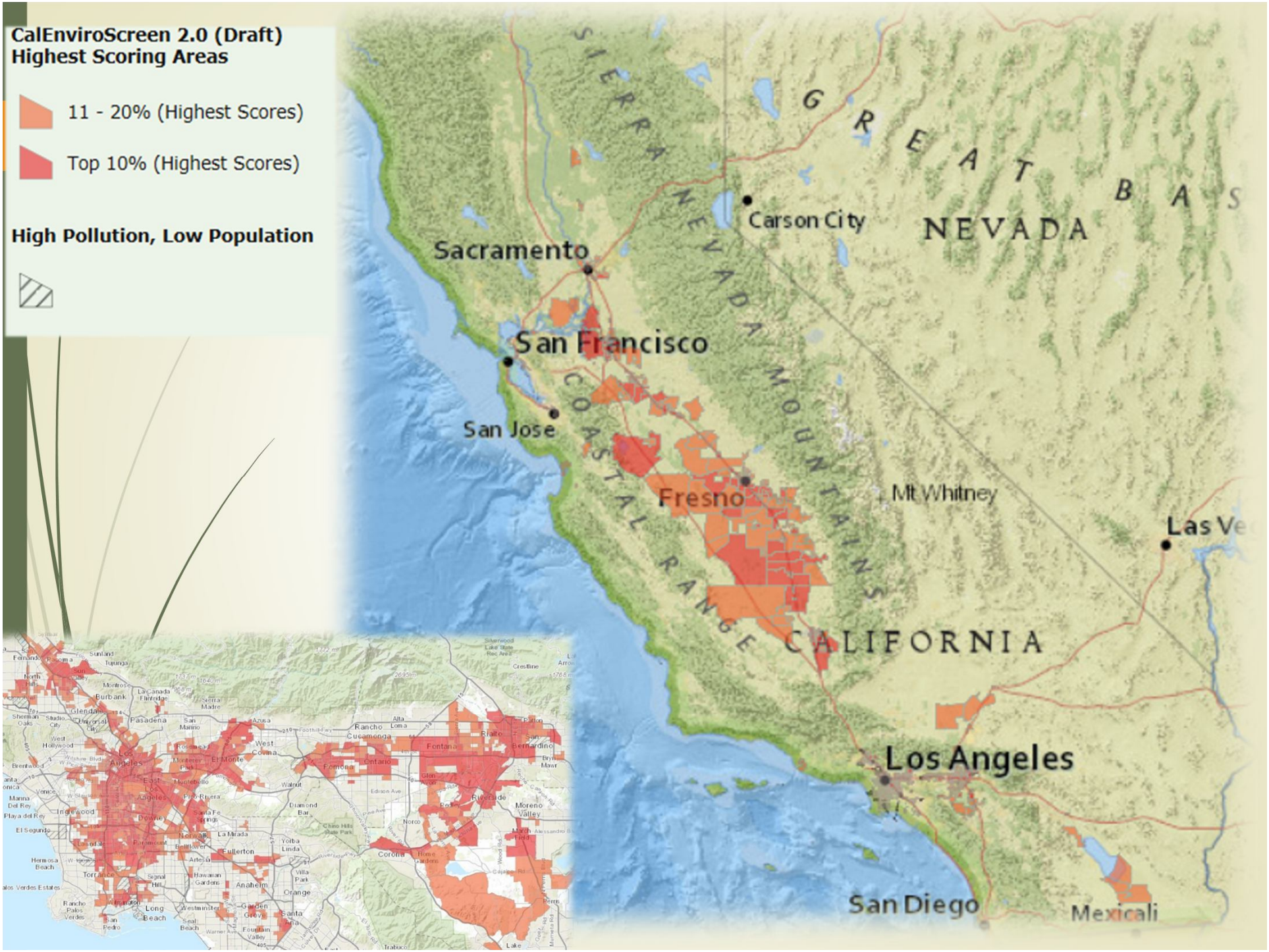
Project Assumptions			
Step 1:	Determine the baseline (pre-project) volume of water associated with the project, in millions of gallons (MG) per year. Provide the basis of the estimate in a separate attachment.		MG/year
Step 2:	Estimate the volume of water that will be delivered after the project is implemented, in MG per year. Provide the basis of the estimate in a separate attachment.		MG/year
Step 3:	Estimate the volume of hot water saved, in MG per year, from the project's electric water heating system. If not applicable enter "0". Provide the basis of the estimate in a separate attachment.		MG/year
Step 4:	Estimate the volume of hot water saved, in MG per year, from the project's natural gas water heating system. If not applicable enter "0". Provide the basis of the estimate in a separate attachment.		MG/year
Step 5:	Estimate the useful life in years for the project. Provide the basis of the estimate in a separate attachment.		years
Step 6:	Find the percentage of water that is imported		
Step 7:	Find the Energy Intensity of the System associated with the project's water savings.		kWh/MG
Step 8:	Find the emission factor in kg CO_2e/KWh specific to your power supplier or use the default (0.424 kgCO_2e/kWh for CAMX sub-region).		kg CO_2e/kWh
Step 9:	Find EI associated with the Supply and Conveyance segment of the imported water.		kWh/MG
Step 10:	Input additional annual energy savings from EERE (energy efficiency and renewable energy) in kWh/year		kWh/year

Water Savings			
1)	Annual volume of water savings within system	0	MG/year
2)	Annual imported volume of water savings	0	MG/year
3)	Annual hot water heating system savings (cannot exceed annual volume of water savings)	0	MG/year
4)	Lifetime volume of water savings within system	0	MG
5)	Lifetime volume of imported water savings	0	MG

Energy Savings			
1)	Annual energy savings within system	0	kWh/year
2)	Annual energy savings from imported water	0	kWh/year
3)	Annual energy savings from electric hot water heating system	0	kWh/year
4)	Annual energy savings from natural gas hot water heating system	0	kWh/year
5)	Total annual energy savings from electric and natural gas hot water heating systems	0	kWh/year
6)	Annual energy savings from natural gas hot water heating system (in therms)	0	therms/year
7)	Lifetime energy savings within system	0	kWh
8)	Lifetime energy savings from imported water	0	kWh
9)	Lifetime energy savings from electric hot water heating system	0	kWh
10)	Lifetime energy savings from natural gas hot water heating system	0	kWh
11)	Total lifetime energy savings from electric and natural gas hot water heating systems	0	kWh
12)	Lifetime energy savings from natural gas water water heating system (in therms)	0	therms
13)	Additional lifetime energy savings from Energy Efficiency and Renewable Energy	0	kWh

Program Preference

- Disadvantaged Communities (DAC)
  - Health and Safety Code § 39711
  - Based on geographic, socioeconomic, public health, and environmental hazard criteria
  - CalEnviroScreen 2.0 Top 20%
    - Currently draft tool
    - Developed by OEHHA for CalEPA
    - CalEPA to establish final DAC standard in coming months


CalEnviroScreen 2.0 (Draft)
Highest Scoring Areas
11 - 20% (Highest Scores)
Top 10% (Highest Scores)
High Pollution, Low Population
SIERRA NEVADA MOUNTAINS
GREAT BASIN
NEVADA
CALIFORNIA
COASTAL RANGE
Carson City
Sacramento
San Francisco
San Jose
Fresno
Mt Whitney
Las Ve
Los Angeles
San Diego
Mexicali

Funding Priority Scheme

Table 3. Funding Priority				
Priority	DAC	Water	Energy	Agreement Components
1	Yes	High	High	Sufficient
2	Yes	High	Medium	Sufficient
3	Yes	Medium	High	Sufficient
4	No	High	High	Sufficient
5	Yes	Medium	Medium	Sufficient
6	No	High	Medium	Sufficient
7	No	Medium	High	Sufficient

Award funds to Priority 1, if leftover funds, go to Priority 2…

Tentative Schedule

- June 18, 2014 – Post draft Guidelines & PSP
  - For public review and comment
- *August 19, 21, 25 2014 – Conduct 3 Public Meetings*
- *October 2014 – Post final Guidelines & PSP*
- *December 2014 – Applications due*
  - *Assuming a 60 day application preparation period*
- *March 2015 – Draft Awards*
- *April/May 2015 – Announce Final Awards*

QUESTIONS?

http://www.water.ca.gov/waterenergygrant/index.cfm

laura.peters@water.ca.gov
916.653.7912

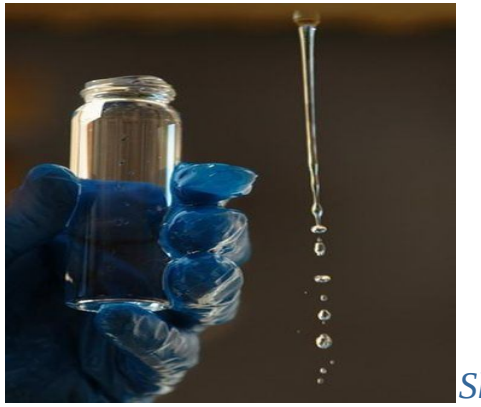
Questions?

If you have questions/comments during or after the webcast, email to:

DFA_Grants@Waterboards.ca.gov

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF FINANCIAL ASSISTANCE (DFA)

Providing Financial Assistance for Drinking Water Related Projects through the Cleanup and Abatement Account (CAA)



CLEANUP AND ABATEMENT ACCOUNT (CAA) PROGRAM

(Sections 13440-13443 of Water Code)

CAA - not typical Grant Program

- Funded by court judgments and administrative civil liabilities assessed by State Water Board and Regional Boards

Funding for

- Emergency cleanup or spills
- Cleanup or abatement of a condition of pollution with no viable responsible parties

CAA INTERIM EMERGENCY DRINKING WATER PROGRAM

- **State Water Board** has $4 million in funding available for **disadvantaged** communities with a **contaminated** (either man-made or natural) water supply

- **Eligible Entities**:
  - Public Agencies
  - Not-for-Profit Water Districts, Not-for-Profit Organizations
  - Tribal Governments

- **Eligible Projects (not limited to)**:
  - Bottled Water
  - Vending Machines
  - Point-of-Use Devices (e.g., Filtration)
  - Hauled Water
  - Wellhead Treatment
  - Planning

CAA INTERIM REPLACEMENT DRINKING WATER PROGRAM

- **State Water Board** has $2 million in funding available for **disadvantaged** communities with a **contaminated** (man-made only) water supply

- **Eligible Entities:**
  - Public Agencies
  - Not-For Profit Water Districts, Not-for-Profit Organizations
  - Tribal Governments

- **Eligible Projects (not limited to):**
  - Bottled Water
  - Vending Machines
  - Point-of-Use Devices (e.g. Filtration)
  - Hauled Water
  - Wellhead Treatment
  - Planning

CLEANUP AND ABATEMENT ACCOUNT

- How To Apply
  - Financial Assistance Application Submittal Tool (FAAST) at: https://faast.waterboards.ca.gov under “CAA Interim Emergency Drinking Water” Request for Proposal Category
  - Complete electronic funding application (available as PDF or Microsoft Word) at: http://www.waterboards.ca.gov/water_issues/programs/grants_loans/caa/dw_droughtfund/index.shtml
    - ✓ (Print out and send via U.S. Mail or E-mail)

CLEANUP AND ABATEMENT ACCOUNT PROGRAM CONTACT INFORMATION

Ms. Conny Mitterhofer, Senior Water Resource Control Engineer

Email: cmitterhofer@waterboards.ca.gov

Phone: (916) 341-5720

Mr. Mark Fong, Water Resource Control Engineer

Email: mfong@waterboards.ca.gov

Phone: (916) 341-5827

Ms. Lori Schmitz, Environmental Scientist

Email: lschmitz@waterboards.ca.gov

Phone: (916) 341-5903

Website:

http://www.waterboards.ca.gov/water_issues/programs/grants_loans/caa/dw_droughtfund/index.shtml

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Outline

- Program Goals and Overview
- Eligible Applicants
- Eligible Projects
- Grant Amount
- Set Asides
- Assistance for DAC/EJ Applicants
- Application Process
- Scoring and Project Selection

DROPS Background

- $25 million available
  - $6 million – Northern California
  - $19 million – Southern California
    (Ventura, Los Angeles, Orange, San Diego, Riverside, San Bernardino)
- Response to Governor Brown's Drought State of Emergency Proclamation
- Repurposes unused Prop 13 & 40 funds

DROPS Goals

- Respond to drought with focus on
  1. Stormwater retention, reuse, recharge
  2. Other water conservation measures
- Fund projects that provide multiple benefits
  - Water quality, conservation, water supply, GHG reductions, energy, awareness, sustainability, other

Timeline

Draft Guidelines	July 2014
Tentative Board Adoption	August 19, 2014
Open Solicitation	September 8, 2014
Close Solicitation	January 15, 2015
Award Grants	Spring 2015
Project Completion	No later than 2019

Eligible Applicants

- Proposed Eligible Applicants
  - K-12 School Districts
    - Distribute to any number of schools/sites within district
  - County Offices of Education (COE)
  - Federally Recognized Tribes
  - One proposal per district
- Requirements
  - Guidelines will list requirements from Bond statute
  - Member of a local watershed group
  - Match

Match

- Match required for all applicants
- Sliding scale based on size of grant
  - Minimum of 10%
  - Maximum of 20%
- Many types of eligible match:
  - In-kind services, other grants, loans, volunteer services, educator hours, cash match, other

Eligible Projects

- Propose that Eligible Projects Must:
  - Reduce/prevent stormwater contamination
  - Implement LID strategies
  - Leverage education/outreach opportunities
  - Be located on existing school or COE owned property, or on publicly-owned property immediately adjacent to school or COE-owned property
- Project Types Include:

Bioretention Basins/ Rain Gardens

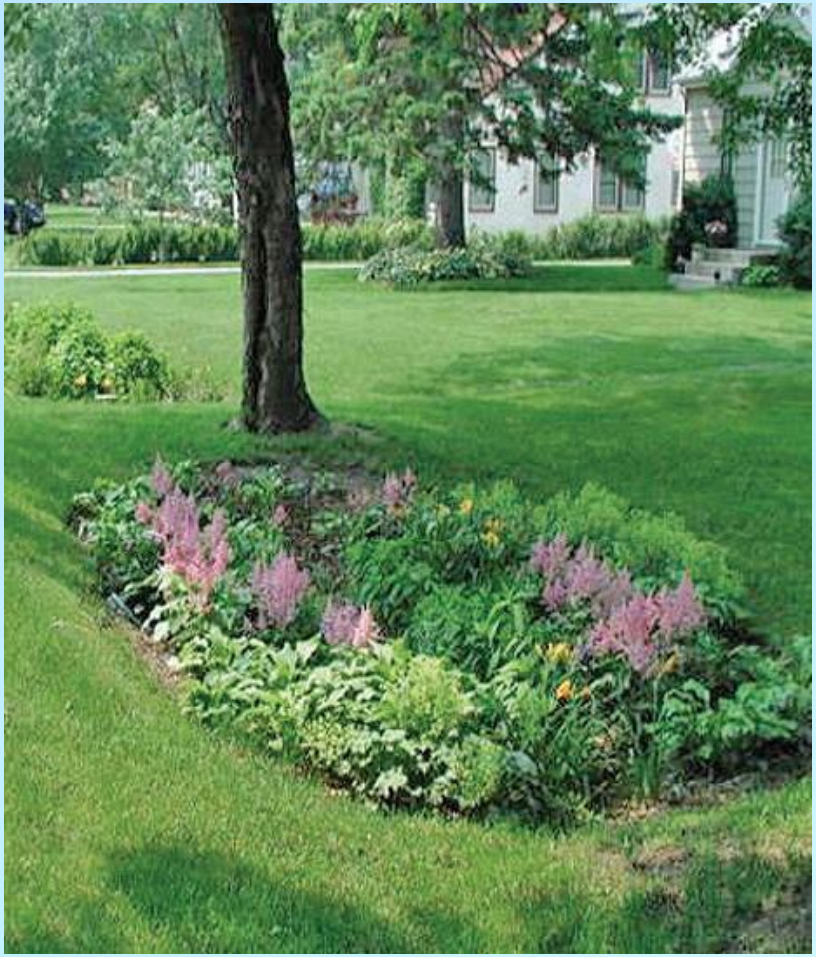


Photo Credit: www.mda.state.mn.us

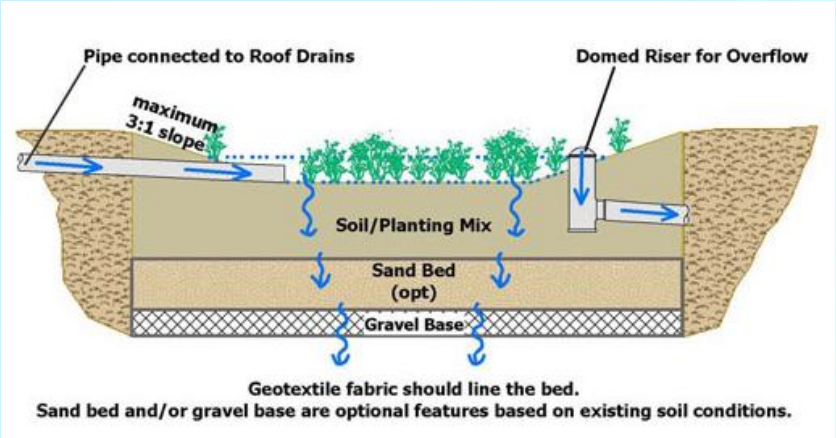


Photo Credit: Temple.edu

Filter Strips/ Infiltration Systems

Photo Credit: keneulie.wordpress.com

Photo Credit: Jeff Johnson for Patagonia

Rooftop Capture/Rain Barrels

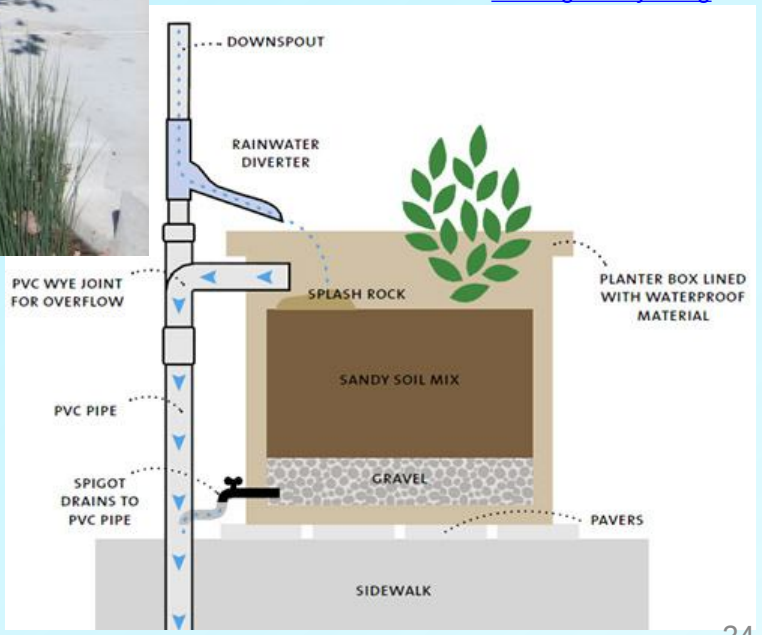
Photo Credit: tank-depot.com

Photo Credit: hayneedle.com

Tree/Planter Box Filters

Photo Credit: http://www.madrono.org

Photo Credit: www.grownyc.org



Permeable Pavers/Pavement

Photo Credit: www.akumalsands.com

Photo Credit: NAPA – hotmix.org

Constructed Wetlands

Photo Credit: www.wallbrink.com.au

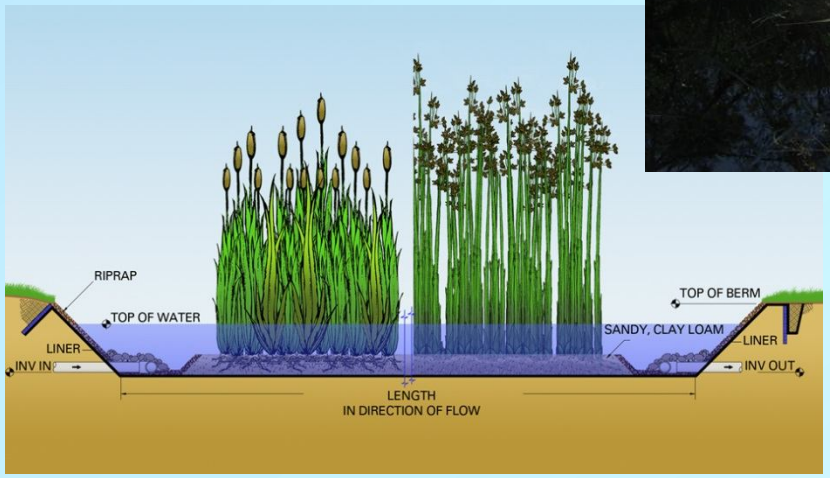


Photo Credit: www.discover-ireland.blogspot.com

Other Eligible Project Types

- Asphalt removal & replacement with drought tolerant species
- Turf removal & replacement (artificial and/or drought tolerant) in non-recreational areas (ornamental turf replacement)
- Dry Wells
- Other Ideas (consult DFA staff)

Conservation Measures

- Including:
  - Smart irrigation
  - Low-flow fixtures
  - Leak detection & repair
  - Water audits
  - Others (consult SWRCB)
- Proposed cap at 10% of grant

Photo Credit: http://www.geog.ucsb.edu

Education/Outreach (E/O)

How to best leverage E/O opportunities?

- Let districts, schools, or COEs design the education component to best fit with needs, capabilities, and interests
- No mandated TYPE of E/O, but all projects must have an E/O component that ties into the funded project
- Applications will be scored on effectiveness, number of students/persons reached

Education/Outreach (E/O)

How to best leverage E/O opportunities?

- Purchase curriculum & equipment
- Extracurricular activities or programs
- Involve students in project planning
- Student involvement throughout the life of the project (maintenance, upkeep, etc.)
- Fund landscaper certification (e.g. Water Management Certification Program) or other training (teacher training)
- Other

Grant Amount

Proposed sliding scale

School District Size	Grant Amount	
	Minimum	Maximum
Less than **10,000** students	$100,000	$1,500,000
Between **10,000** and **50,000** students	$150,000	$2,000,000
More than **50,000** students	$200,000	$2,500,000

Match Amount

Match Sliding Scale

Total Project Amount	Match Requirement
Less than $125,000	10%
Between $125,000 and $1,000,000	15%
Over $1,000,000	20%

How to Define Disadvantaged Community/Environmental Justice Schools

- Looking at set aside, and are seeking additional input on how to define DAC/EJ schools
  - Free and Reduced Price Meals
  - Title 1
  - Enviroscreen
  - MHI on census-tract level
  - Other metric?

Disadvantaged Community (DAC) and Environmental Justice (EJ) Set Aside

- 25% of available funds reserved for DAC/EJ schools (~$6 million)
- Proposed DAC/EJ school definition:
  - A DAC/EJ school must have a Free and Reduced Price Meals (FRPM) eligibility percentage of 80% or higher
- To qualify for the DAC/EJ set aside, all of the projects must be located at or benefit DAC/EJ schools
- Additional points awarded for partial project location at DAC/EJ schools

Proposed Los Angeles Unified School District (LAUSD) Set Aside

- $5 million of designated Southern California funds (~$19 million) set aside proposed for LAUSD
- All proposed LAUSD projects would be reviewed individually by the State Water Board
  - LAUSD not eligible for additional DROPS funding

Technical Assistance

- Proposing $250,000 to the Low Impact Development Initiative (LIDI) to:
  - Develop uniform planning specifications
  - Conduct a training webinar
  - Provide application assistance to qualified disadvantaged school districts
- LIDI may partner with a Southern California group

Application Process

- DROPS Guidelines will include the application questions & scoring criteria
- Applications will be accepted through the Financial Assistance Application Submittal Tool (FAAST)
  - https://faast.waterboards.ca.gov/

Proposed Scoring Criteria

- 30 points - Technical
- 35 points - Education and Community Involvement
- 10 points - Budget
- 10 points - Readiness and Schedule
- 5 points – Operations and Maintenance
- 5 points - Monitoring, Assessment, Performance
- 5 points - Multiple Benefits
- 15 bonus points – DAC/EJ and Membership in Local Watershed Group

Proposal Elements

- Each project site must include:
  - Name, location, number of students, impervious area
  - Photo or picture with proposed BMP locations
  - Approximate square footage of BMP and/or capture area
  - Estimated volume captured/treated, and/or pollutants captured/removed
  - Cost per project site
  - We will provide templates for the proposal elements

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Eligible Projects

- Propose that Eligible Projects Must:
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  - Leverage education/outreach opportunities
  - Be located on existing school or COE owned property, or on publicly-owned property immediately adjacent to school or COE-owned property

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How to best leverage E/O opportunities?

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- 5 points - Monitoring, Assessment, Performance
- 5 points - Multiple Benefits
- 15 bonus points – DAC/EJ Project Benefits and Membership in Local Watershed Group

Proposed Evaluation Criteria
Technical – 30 points

- Project Summary (template to be provided)
  - Project location(s), including number of students
  - Site description, including percent impervious surface
  - Types of BMPs, size of BMPs, estimated stormwater capture area and quantity to be captured, and targeted pollutants
  - Existing plans/studies and geotechnical data
  - Current photos, maps, and concept drawings
  - Project scope of work
  - Adaptive management plan

Proposed Evaluation Criteria

Education & Community Involvement - 35 points

- Existing water education activities/curriculum
- Integration of new educational components
  - Part of curriculum, extracurricular, site visits
- Student participation
  - Number of students/grade level
  - Planning/design, project implementation, post construction activities, and/or project maintenance
- Community involvement
  - Stormwater project involvement and/or awareness
  - Leveraging of funds, coordination amongst PTO, city, and watershed groups

Proposed Evaluation Criteria
Budget – 10 points

- Budget template to be provided
- Budget categories:
  - Direct Project Administration
  - Planning/Design/Engineering/Environmental
  - Construction/Implementation
  - Monitoring/Performance
  - Education/Outreach
- Sample budget will be made available
- Each project location (school site) will have a detailed budget

Proposed Evaluation Criteria
Readiness and Schedule – 10 points

- Provide a schedule table for each project location
- Tasks in the schedule should be reflective of the tasks described in the Project Summary
  - CEQA, Division of State Architect review, permitting
- Estimated completion dates for each task
- Education and outreach tasks and milestones

Proposed Evaluation Criteria
Operation and Maintenance – 5 points

- Describe how the project(s) will be maintained and operated for 20 years
- Include discussion on any trainings and/or certification programs for landscape maintenance staff
- May include student involvement in maintenance, too

Proposed Evaluation Criteria

Monitoring, Assessment and Performance Measures - 5 points

- What are the proposed goals and objectives of the project?
- How will you measure or evaluate the effectiveness of your project?
- Can the benefits be measured in terms of specific numeric targets?
  - Quantity of water infiltrated
  - Estimated reduction in pollutants
  - Number of students involved/educated

Proposed Evaluation Criteria
Multiple Benefits – 5 points

- Describe if and how the project will:
  - Address a Total Maximum Daily Load (TMDL)
  - Support urban greening
  - Augment a local water supply
  - Reduce flood risk or sanitary sewer overflows
  - Reduce greenhouse gas emissions
  - Enhance stream habitat

Proposed Evaluation Criteria

DAC and Membership in a Local Watershed Group – 15 *bonus points*

- Describe how your school district and community meet the DAC definition
- Demonstrated membership and involvement with the local watershed group

Upcoming DROPS Workshops

- Tuesday, July 8th 1:30 pm, San Diego Office of Education, 6401 Linda Vista Rd, San Diego
  - Webcast: http://stream.sdcoe.net/webcast/events/efsg070814/

Questions?

- Contact Info:

  Leslie Laudon
  Leslie.Laudon@Waterboards.ca.gov
  916-341-5499

  Sarah Gatzke
  Sarah.Gatzke@Waterboards.ca.gov
  916-341-5733

  Jeffrey Albrecht
  Jeffrey.Albrecht@Waterboards.ca.gov
  916-341-5717

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- DROPS Website:
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